3M

ScotchlokTM

Insulated Electrical Spring Connector R (Red)

Data Sheet





Application

Use a Scotchlok[™] connector R to electrically connect two or more conductor ends in a pigtail application and insulate the connection, or insulate a single conductor end.

Wire Range

AWG Range: solid or stranded copper conductors only. No. 18 thru No. 10 (1,0 mm² thru 6,0 mm²)

Construction

Spring Spring steel, Corrosion resistant coatingShell Steel, Corrosion resistant coating

Insulator Flame Retardant Flexible Polyvinyl

Chloride Color- red

Weight

.0084 lb. (3.81 gm)

Engineering Specification

Scotchlok Electrical Spring Connector (3M part No. Scotchlok R) capable of connecting two or more wires in a pigtail application, in the wire range of No. 18 thru No. 10 AWG solid or stranded copper conductors. The connector shall be constructed of an active (live) spring and a steel shell covered by a vinyl insulator. The spring shall have a corrosion

resistant coating. The connector shall be UL Listed and CSA Certified as a pressure cable connector. The connector shall be voltage rated 600 volts maximum, building wire, 1000 volts maximum, signs, fixtures and luminaires. The connector shall have a maximum operating temperature of 105°C.

Regulatory Agencies

UL Listed as a Pressure Cable Connector

Tested per UL Standard 486C

UL File No. E23438

Operating Temperature: 105°C (221°F)

Voltage Rating: 600 volts max. building wire;

1000 volts max. signs and fixtures Flammability Rating: UL94 V-2

CSA Certified-CSA Standard C22.2 No. 0,

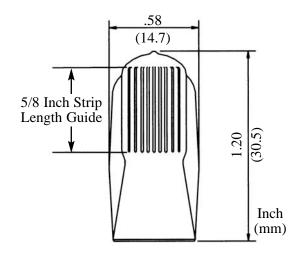
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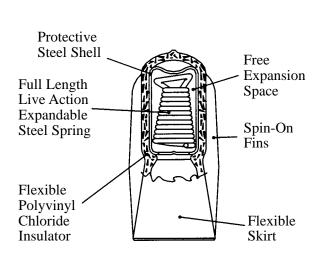
CSA File No. LR15503

Operating Temperature: 105°C (221°F) Voltage Rating: 600 volts max. building wire 1000 volts max. signs and luminaires. Flammability Rating: C22.2 No. 0.6 V-2

Federal Specification W-S-610:

	"Commercial package only"			
Type	Class	Kind	Style	
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Scotchlok[™] Insulated Electrical Spring Connector R

AWG Wire Combinations Copper to Copper Conductors \Box = 300 volts = 600 voltsAll wire combinations 2 3 4 18 are 600 volt UL Listed STR when using conductors 000 with insulation thickness 5 such as TW and THHN. 1 2 UL Listed single wire terminations: 18 No: 10, 12 and 14 AWG SOL 4 000 00 5 All wire combinations 00 1 are 600 volts 16 2 00 000 CSA Certified STR 000 000 000 00 00 1 00 16 2 00 00 000 000 SOL 000 3 000 000 000 00 00 1 0 • • 0 14 2 • • □ • 0 • 🗆 • 0 STR • • • • • 0 0 . . . • 🗆 How to read this chart: 1 • 0 14 2 • 🗆 • 0 Example 1: SOL 00 • 0 • 🗆 • 0 1 No. 12 str. • 🗆 • 0 + 4 No. 14 sol. (5) 1 12 2 • 0 • • 0 0 $\bullet \bullet \Box \Box$... STR • 0 • 0 • 0 4 Example 2: 1 1 No. 10 sol. 12 2 . . . • 0 + 2 No. 10 str. (3) SOL • 🗆 • 0 • 0 • 0 • 0 • 0 4 10 1 • 🗆 • 🗆 STR 2 10 • 0 • 🗆 1 SOL 2 1234 1234 1234 1234 1234 1234 1234 1234 1 2 1 2 18 18 12 10 16 16 14 14 12 10 STR SOL STR SOL STR SOL SOL STR STR SOL

Installation Instructions

AWARNING

Turn power off before installing or removing terminal. All electrical work should be done according to appropriate electrical codes.

- 1. Strip wire insulation 5/8 inch (15,9 mm) from the end of the wires to be connected.
- 2. Firmly grasp wires, making sure insulation ends are even and tightly bundled. (wires may be twisted or untwisted). Slip connector over wire tips.
- 3. Turn connector onto wires in a clockwise direction until secure.
- 4. To remove, turn connector counter-clockwise.

Metric Wire Combinations

Copper Conductors Only

Cross Section Capacity			
Minimum	Maximum		
5,0mm²	16,0mm²		

Conductor Combinations				
Quantity	Size	Туре		
5-6	1,0mm²	sol/str		
4-6	1,5mm²	sol/str		
2-5	2,5mm²	sol/str		
2-4	4,0mm²	sol/str		
2	6,0mm ²	sol/str		

Only AWG combinations are UL Listed or CSA Certified.

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is a trademark of Canadian Standards Association.

IMPORTANT NOTICE

Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

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Electrical Products Division

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